

TABLE 8.7.1 COMMERCIAL WORKER ON-SITE LEAD EXPOSURE MISSION BAY LANDFILL SEA WORLD DRIVE SAN DIEGO, CALIFORNIA

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m³)	0.028
Lead in Soil/Dust (ug/g)	10.4
Lead in Water (ug/l)	0
% Home-grown Produce	0%
Respirable Dust (ug/m³)	1.5

OUTPUT							
Percentile Estimate of Blood Pb (ug/dl) PRG-99 PRG-						PRG-95	
50th	90th	95th	98th	99th	(ug/g)	(ug/g)	
0.2	0.4	0.5	0.6	0.7	NA	NA	
0.3	0.5	0.6	0.7	0.8	NA	NA	
	50th 0.2	Percentile Estir 50th 90th 0.2 0.4	Percentile Estimate of BI 50th 90th 95th 0.2 0.4 0.5	Percentile Estimate of Blood Pb (150th 90th 95th 98th 0.2 0.4 0.5 0.6	Percentile Estimate of Blood Pb (ug/dl) 50th 90th 95th 98th 99th 0.2 0.4 0.5 0.6 0.7	Percentile Estimate of Blood Pb (ug/dl) PRG-99 50th 90th 95th 98th 99th (ug/g) 0.2 0.4 0.5 0.6 0.7 NA	

EXPOSURE PARAMETERS					
	units	adults			
Days per week	days/wk	0			
Days per week, occupational		5			
Geometric Standard Deviation		1.6			
Blood lead level of concern (ug/dl)	10			
Skin area, residential	cm ²	0			
Skin area occupational	cm ²	5700			
Soil adherence	ug/cm²	70			
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001			
Soil ingestion	mg/day	50			
Soil ingestion, pica	mg/day				
Ingestion constant	(ug/dl)/(ug/day)	0.04			
Bioavailability	unitless	0.44			
Breathing rate	m³/day	20			
Inhalation constant	(ug/dl)/(ug/day)	0.082			
Water ingestion	l/day	0			
Food ingestion	kg/day	1.9			
Lead in market basket	ug/kg	3.1			
Lead in home-grown produce	ug/kg	0.0			

PATHWAYS							
ADULTS	Re	sidentia	1	0	ccupatio	nal	
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent	
Soil Contact	0.0E+0	0.00	0%	2.7E-5	0.00	0%	
Soil Ingestion	0.0E+0	0.00	0%	6.3E-4	0.01	2%	
Inhalation, bkgrnd		0.00	0%		0.03	12%	
Inhalation	0.0E+0	0.00	0%	1.8E-6	0.00	0%	
Water Ingestion		0.00	0%		0.00	0%	
Food Ingestion, bkgrnd		0.23	100%		0.23	85%	
Food Ingestion	0.0E+0	0.00	0%			0%	

TABLE 8.7.2 CONSTRUCTION WORKER ON-SITE LEAD EXPOSURE MISSION BAY LANDFILL SEA WORLD DRIVE SAN DIEGO, CALIFORNIA

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m³)	0.028
Lead in Soil/Dust (ug/g)	20.8
Lead in Water (ug/l)	0
% Home-grown Produce	0%
Respirable Dust (ug/m³)	1.5

EXPOSURE PARAMETERS					
	units	adults			
Days per week	days/wk	0			
Days per week, occupational		5			
Geometric Standard Deviation		1.6			
Blood lead level of concern (ug/dl)		10			
Skin area, residential	cm ²	0			
Skin area occupational	cm ²	5700			
Soil adherence	ug/cm²	70			
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001			
Soil ingestion	mg/day	330			
Soil ingestion, pica	mg/day				
Ingestion constant	(ug/dl)/(ug/day)	0.04			
Bioavailability	unitless	0.44			
Breathing rate	m³/day	20			
Inhalation constant	(ug/dl)/(ug/day)	0.082			
Water ingestion	l/day	0			
Food ingestion	kg/day	1.9			
Lead in market basket	ug/kg	3.1			
Lead in home-grown produce	ug/kg	0.0			

ОИТРИТ							
Percentile Estimate of Blood Pb (ug/dl) PRG-99 PRG-95						PRG-95	
	50th	90th	95th	98th	99th	(ug/g)	(ug/g)
BLOOD Pb, ADULT	0.2	0.4	0.5	0.6	0.7	NA	NA
BLOOD Pb, OCCUPATIONAL	0.4	0.6	8.0	0.9	1.1	NA	NA

PATHWAYS							
ADULTS	Re	sidentia	ıl	0	ccupatio	nal	
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent	
Soil Contact	0.0E+0	0.00	0%	2.7E-5	0.00	0%	
Soil Ingestion	0.0E+0	0.00	0%	4.1E-3	0.09	24%	
Inhalation, bkgrnd		0.00	0%		0.03	9%	
Inhalation	0.0E+0	0.00	0%	1.8E-6	0.00	0%	
Water Ingestion		0.00	0%		0.00	0%	
Food Ingestion, bkgri	Ingestion, bkgrnd 0.23 100%		100%		0.23	66%	
Food Ingestion	0.0E+0	0.00	0%		•	0%	

TABLE 8.7.3 ADULT AND CHILD RECREATIONAL USER ON-SITE LEAD EXPOSURE MISSION BAY LANDFILL SEA WORLD DRIVE SAN DIEGO, CALIFORNIA

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m³)	0.028
Lead in Soil/Dust (ug/g)	10.4
Lead in Water (ug/l)	0
% Home-grown Produce	0%
Respirable Dust (ug/m²)	1.5

ОИТРИТ							
Percentile Estimate of Blood Pb (ug/dl) PRG-99 PRG-95							PRG-95
	50th 90th 95th 98th 99th (ug/g) (ug/g					(ug/g)	
BLOOD Pb, ADULT	0.2	0.4	0.5	0.6	0.7	4033	5695
BLOOD Pb, CHILD	0.6	1.1	1.3	1.6	1.8	439	640
BLOOD Pb, PICA CHILD	0.6	1.1	1.3	1.6	1.8	439	640
BLOOD Pb, OCCUPATIONAL	0.2	0.4	0.5	0.6	0.7	NA	NA

EXPOSURE PARAMETERS						
-	units	adults	children			
Days per week	days/wk		3			
Days per week, occupational		0				
Geometric Standard Deviation		1	.6			
Blood lead level of concern (ug/di)		·	10			
Skin area, residential	cm ²	5700	2800			
Skin area occupational	cm ²	0				
Soil adherence	ug/cm ²	70	3000			
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001				
Soil ingestion	mg/day	100	200			
Soil ingestion, pica	mg/day		200			
Ingestion constant	(ug/dl)/(ug/day)	0.04	0.16			
Bioavailability	unitless	0.	.44			
Breathing rate	m³/day	3	2			
Inhalation constant	(ug/dl)/(ug/day)	0.082	0.192			
Water ingestion	l/day	0	0			
Food ingestion	kg/day	1.9	1.1			
Lead in market basket	ug/kg	3	3.1			
Lead in home-grown produce	ug/kg	C	0.0			

PATHWAYS							
ADULTS	Re	sidentia	ıl	Occupational			
	Pathwa	y contri	bution	Pathy	vay contr	ibution	
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent	
Soil Contact	1.6E-5	0.00	0%	0.0E+0	0.00	0%	
Soil Ingestion	7.5E-4	0.01	3%	0.0E+0	0.00	0%	
Inhalation, bkgrnd		0.00	1%		0.00	0%	
Inhalation	1.6E-7	0.00	0%	0.0E+0	0.00	0%	
Water Ingestion		0.00	0%		0.00	0%	
Food Ingestion, bkgrr	nd 0.23 96%			0.23	100%		
Food Ingestion	0.0E+0	0.00	0%			0%	

CHILDREN	typical			with pica			
	Pathway contribution			Pathway contribution			
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent	
Soil Contact	3.5E-4	0.00	1%		0.00	1%	
Soil Ingestion	6.0E-3	0.06	10%	6.0E-3	0.06	10%	
Inhalation	2.5E-7	0.00	0%		0.00	0%	
Inhalation, bkgrnd		0.00	1%		0.00	1%	
Water Ingestion		0.00	0%		0.00	0%	
Food Ingestion, bkgrnd		0.54	88%		0.54	88%	
Food Ingestion	0.0E+0	0.00	0%		0.00	0%	

TABLE 8.7.4 TRANSIENT ON-SITE LEAD EXPOSURE MISSION BAY LANDFILL SEA WORLD DRIVE SAN DIEGO, CALIFORNIA

INPUT						
MEDIUM	LEVEL					
Lead in Air (ug/m³)	0.028					
Lead in Soil/Dust (ug/g)	10.4					
Lead in Water (ug/l)	0					
% Home-grown Produce	0%					
Respirable Dust (ug/m³)	1.5					

Days per week

Soil adherence

Soil ingestion

Bioavailability

Breathing rate

Food ingestion

Soil ingestion, pica

Ingestion constant

Inhalation constant Water ingestion

Lead in market basket

Lead in home-grown produce

Skin area, residential

Skin area occupational

Dermal uptake constant

Days per week, occupational Geometric Standard Deviation Blood lead level of concern (ug/dl)

EXPOSURE PARAMETERS

unitless m³/day

(ug/dl)/(ug/day)

I/day

kg/day

ug/kg

ug/kg

	0%	•	
	1.5		
			ı
ļ	RAMETERS		
	units	adults	ľ
	days/wk	7	
		1.6	
)		10	
	cm ²	5700	
	cm ²		
	ug/cm²	800	
	(ug/dl)/(ug/day)	0.0001	
	mg/day	100	
	mg/day		
	(ug/dl)/(ug/day)	0.04	
	unitless	0.44	

20

0.082

0 1.9

3.1

0.0

OUTPUT							
	Percentile Estimate of Blood Pb (ug/dl)					PRG-99	PRG-95
	50th	90th	95th	98th	99th	(ug/g)	(ug/g)
BLOOD Pb, ADULT	0.3	0.6	0.7	0.8	0.9	NA	NA
BLOOD Pb, OCCUPATIONAL	0.2	0.4	0.5	0.6	0.7	NA	NA

PATHWAYS							
ADULTS	Residential			Occupational			
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent	
Soil Contact	4.4E-4	0.00	2%	0.0E+0	0.00	0%	
Soil Ingestion	1.8E-3	0.02	6%	0.0E+0	0.00	0%	
Inhalation, bkgrnd		0.05	15%		0.00	0%	
Inhalation	2.5E-6	0.00	0%	0.0E+0	0.00	0%	
Water Ingestion		0.00	0%		0.00	0%	
Food Ingestion, bkgrnd		0.23	77%		0.23	100%	
Food Ingestion	0.0E+0	0.00	0%	·		0%	